

GENERATING METHOD AND GENERATING DEVICE OF FUEL VAPOR FOR TEST AND TESTING METHOD AND TESTING DEVICE OF CANISTER

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Abstract

PROBLEM TO BE SOLVED: To generate fuel vapor for a test in a short time by a small quantity of raw materials by generating a vaporous substance by heating components liquefied at the normal temperature in constitutive components of fuel for internal combustion engine while atomizing them.

SOLUTION: Representative components which constitute fuel gasoline and have the carbon number of 4 to 9, are respectively stored in plural cylinders 1a to 1f. The component from the cylinder 1a is gasified at the normal temperature, and the components from the cylinders 1b to if are liquefied at the normal temperature. The representative components stored in the cylinders 1a to 1f are vaporized by a vapor generating mechanism 2. A pressurizing part 10 supplies nitrogen gas from a pressurized nitrogen cylinder 11 to the cylinder 1b to 1f, and a flow rate adjusting part 20 adjusts a flow rate of various components taken out of the cylinders 1a to 1f, and a vapor generating part 30 mixes and vaporizes the respective components whose flow rate is adjusted. The vapor generating part 30 has a heater, a mixer and an agitator, and atomizes, mixes, heats and vaporizes respective liquid components. Fuel vapor can be generated in a short time by a small quantity of raw materials by this method.

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